

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTORNEY DOCKET NO.  
16991/3:1APPLICATION NO.  
10/693,422APPLICANT  
Karl L. AschenbachFILING DATE  
October 24, 2003

GROUP 1724

INFORMATION DISCLOSURE CITATION  
(Uses several sheets if necessary)

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

X	AA	"Fluid Transport Equipment," <i>Encyclopedia of Fluid Mechanics</i> , Volume 2, Dynamics of Single-Fluid Flows and Mixing, pp. 1194, 1197, and 1200-1203.
A	AB	"Reactors and Industrial Applications," <i>Encyclopedia of Fluid Mechanics</i> , Volume 3, Gas-Liquid Flows; pp. 1478, 1482, and 1487.
Y	AC	Simon X. Xu, Lowell Pless; "Distillation tower flooding—more complex than you think: while other "predictive" methods tell too little, too late, gamma scans indicate where and why flooding occurs—invaluable insight for troubleshooters," from <i>Chemical Engineering</i> , 6/1/02, ISSN: 0009-2460; Volume 109; Issue 6; pages: 8full text.
ae	AD	Michael W. Biddulph, Christopher P. Thomas, Alan C. Burton, "Don't Downplay Downcomer Design," from <i>Chemical Engineering Progress</i> , December 1993, pp. 56-60.

EXAMINER

Av. A

DATE CONSIDERED

8/27/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.